BUDGET ACTIVITY  04 - Demonstration and Validation	PE NUMBER AND TITLE  0604237F Variable Stability In-Flight Aircraft					February 2000 PROJECT Simulation Test 643308			
COST (\$ in Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
643308 Variable Stability In-Flight Simulation Test Aircraft	3,833	0	0	0	0	0	0	0	59,508
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	(

years, the research and development flight test community extensively employed the variable stability NT-33A for flight evaluation of fielded aircraft upgrades and new aircraft developments. Its success has been directly attributable to its relatively low-cost of operation, rapid response to customer needs, and high degree of credibility in the flight test community. VISTA was developed to replace the NT-33A because the NT-33A's performance was not representative of future aircraft (it was the oldest aircraft in the Air Force still actively flying). VISTA has the capability to simulate a wide range of air vehicles to verify crucial flight control and human factor designs, establish flying qualities specification criteria, and operate as a flying laboratory for flight control and cockpit display research. In addition, the Air Force Test Pilot School has used VISTA, as they have the NT-33A, to safely train test pilots to evaluate aircraft handling quality, avionics, and human factors designs in a realistic

high-performance environment. Note: Congress added \$6.0 million to this PE in FY 1998 and \$4.0 million in FY 1999 for VISTA. There are no plans to request future funding in this PE to continue operating the VISTA aircraft. In FY 2000, the Air Force will either retire the VISTA or transfer the airplane to another Air Force organization, the National Aeronautics and Space Administration, or industry.

### FY 1999 (\$ in Thousands) (U)

(U) \$3,833 Continued upgrade program that provides electrical and mechanical interfaces for future installation of an F100-PW-299 engine with an existing

axisymmetric thrust vectoring nozzle and a programmable display subsystem, and continued flight testing to investigate flight control laws and

performance characteristics of fielded aircraft upgrades, new aircraft developments, and test pilot training.

\$3,833 (U)Total

FY 2000 (\$ in Thousands) (U)

\$0 No Activity. (U)

\$0 (U)Total

**Project 643308** Page 1 of 4 Pages Exhibit R-2 (PE 0604237F

	RDT&E BUDGET ITEM JUSTIFIC	DATE <b>Febr</b> u	DATE February 2000			
	Demonstration and Validation	PE NUMBER AND TITLE  0604237F Variable  Aircraft	0604237F Variable Stability In-Flight			
(U)	A. Mission Description Continued					
(U) (U) (U)	FY 2001 (\$ in Thousands) \$0 No Activity. \$0 Total					
( <b>U</b> )	B. Budget Activity Justification This program is in Budget Activity 4, Demonstration and Validat environment as possible to assess performance or cost reduction		evaluate integrated	technologies in as real	istic an operating	
(U)	C. Program Change Summary (\$ in Thousands)	FW 1000	EX. 2000	EN 2001	T . 1 C	
$(\mathbf{I})$	Previous President's Budget (FY 2000 PBR)	<u>FY 1999</u> 3,989	<u>FY 2000</u> 0	<u>FY 2001</u> 0	Total Cos	
(U) (U)	Appropriated Value	4,000	0	U		
(U) (U)	Adjustments to Appropriated Value	4,000	U			
(0)	a. Congressional/General Reductions	-11				
	b. Small Business Innovative Research	-135				
	c. Omnibus or Other Above Threshold Reprogram	133				
	d. Below Threshold Reprogram					
	e. Rescissions	-21				
	f. Other		0			
(U)	Adjustments to Budget Years Since FY 2000 PBR					
(U)	Current Budget Submit/FY 2001 PBR	3,833	0	0		
(U)	Significant Program Changes: Not Applicable.					
P	roject 643308	Page 2 of 4 Pages		Exhibit R-2	2 (PE 0604237F)	

	RDT&E BUD	GET ITE	M JUSTIF	ICATION	SHEET (	R-2 Exh	ibit)		DATE <b>February</b>	2000
=	GET ACTIVITY  • Demonstration and Val	idation			PE NUMBER A 0604237F Aircraft		e Stability	In-Flight S	Simulation Test	PROJECT : <b>643308</b>
(U)	D. Other Program Funding Su Related Activities: PE 0602201F, Aerospace	mmary (\$ in 7 FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
	Flight Dynamics. PE 0603245F, Flight Vehicle Technology Integration.									
(U)	E. Acquisition Strategy Not Applicable.									
	F. Schedule Profile			1	<u>FY 1999</u> 2 3	4	FY 2	2 <u>000</u> 3 4	FY 2	. <u>001</u> 3 4
(U)	Not Applicable.									
Р	roject 643308			Pag	ge 3 of 4 Pages				Exhibit R-2 (PE	E 0604237F)

	RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE <b>F</b> (	DATE February 2000		
	GET ACTIVITY  Demonstration and '	Validation				er and title 37F Variab ft	le Stabilit	y In-Fligh	t Simulati	on Test	PROJECT <b>643308</b>
(U) (U) (U) (U)	A. Project Cost Breakdown  Not Applicable.  Total  B. Budget Acquisition History	ory and Plannin		n (\$ in Thousand	<u>ds</u> )		FY	<u>1999</u>	FY 20	<u>00</u>	FY 2001
(U)	Performing Organizations: Contractor or Government Performing Activity Product Development Organ Support and Management Or Test and Evaluation Organizations:	Contract Method/Type or Funding Vehicle izations	Award or Obligation Date	Performing Activity EAC	Project Office EAC	Total Prior to FY 1999	Budget FY 1999	Budget FY 2000	Budget FY 2001	Budget to Complete	
	Not Applicable.  Subtotals Subtotal Product Developme Subtotal Support and Manag Subtotal Test and Evaluation Total Project	ement				Total Prior to FY 1999	Budget FY 1999	Budget FY 2000	Budget FY 2001	Budget to Complete	
P	roject 643308			Paş	ge 4 of 4 Pag	ges			Exhib	it R-3 (PE (	0604237F)